

## 2.7 BASE REALIGNMENT AND CLOSURE AOIs DESIGNATED FOR NFA

### 2.7.1 FGGM21 (OU-16) – MEDICAL WASTE SITE

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SI..... 1994

Removal Action Report..... 1999

PA..... 2012

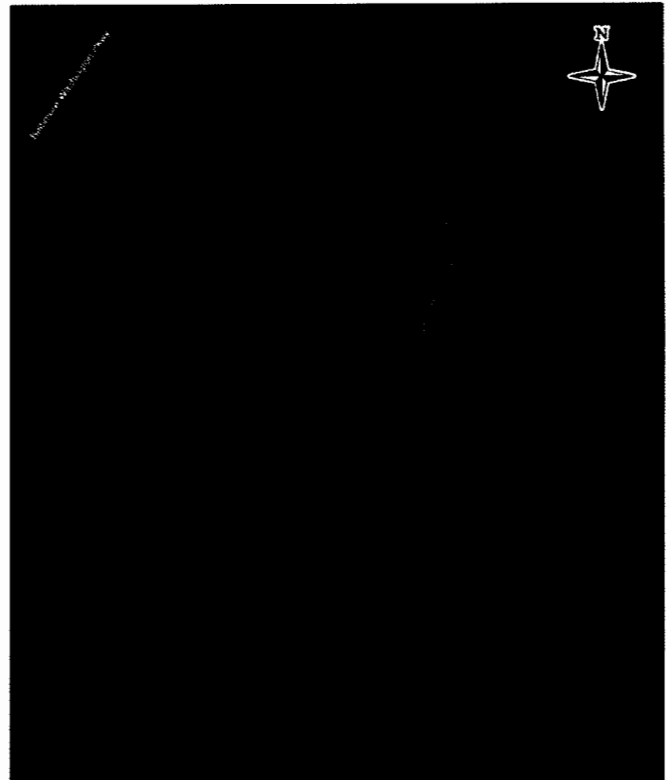
**Contaminants of Potential Concern:** Arsenic

**Media of Concern:** Soil

**Site Location:** Grid A7, at the Walter Reed Medical Center farm in the BRAC parcel off Switch Board Road, adjoining and east of the Baltimore-Washington Parkway, approximately 2 miles southwest of State Route 198. The Medical Waste site is approximately 1 acre.

**Site Description:** The former farm property was transferred from Fort Meade to the U.S. Department of the Interior under the BRAC program in 1991 and is currently part of the PRR- NT. Prior to the transfer, the property was operated as an animal farm from about 1967 to 1987. A medical/farming waste area was located near the southwest corner of the former farm, about 750 feet southwest of a retention pond and adjacent to a marshy area extending south to the Patuxent River. The facility was never a secure facility and was not a site where biological agents would have been used in research (FGGM, 1999). Based on the history of the AOI, biological agents would not have been used in research at this location, and likewise, would not be disposed of in the Medical Waste site. A scan of both the general work area and specific medical waste debris with a Radiation Survey Meter reported no elevated radiological readings.

**Previous Studies:** Over the course of previous investigations at this AOI, 12 surface soil samples were collected and submitted for laboratory analysis.



FGGM 21 Medical Waste Site  
0 250 500 1,000 Feet

**Current Use:** Inactive

**Current Status:** On 23 February 2012, EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA. Any risk associated with munitions will be addressed under the MMRP and the LUCRD for the HEI Area (FGGM 002-R-01).

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.7.2 FGGM 32 (OU-18) – FIRE TRAINING AREA (PART OF TIPTON)

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Enhanced PA..... 1989

SI..... 1992

Ordinance and Explosives

Removal Action ..... 1997

RI..... 1998

Removal Action Report ..... 1998

LTMP..... 2001, 2012

LTM..... 2004-2014

5-Year Reviews ..... 2005, 2011

ESD..... 2014

LUCRD..... October 2015

5-Year Review..... 2016

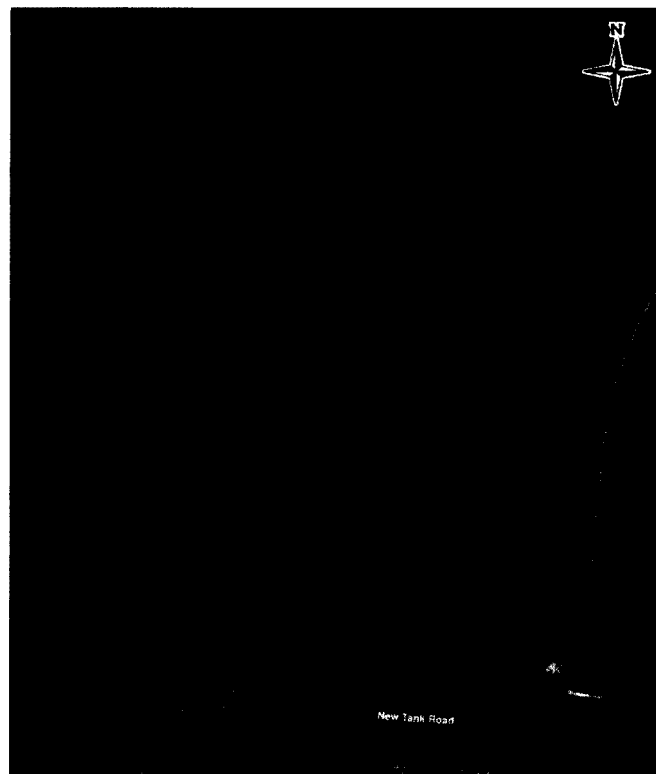
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid E5, in the northern portion of Tipton Army Airfield, off Airfield Road, north of the airfield and east of the Helicopter Hangar Area.

**Site Description:** The FTA was constructed around 1979 by the Fort Meade Fire Department for training purposes. The northern half of the FTA is fenced off and previously enclosed the fire training pit and adjacent training areas. Fires were typically set inside the pit or in portable burn pans using gasoline or aviation fuel. The fires were then extinguished with water or aqueous foam, a synthetic extinguishing agent. Other emergency response training, such as self-contained breathing apparatus training and emergency rescues, were performed at this location. An OWS located on the south side of the fire training pit was used when draining the pit. Water from the separator was transported from the site via an underground pipeline to a sanitary sewer. Both the fire training pit and OWS were removed in 1998.

**Previous Studies:** The TAP OU ROD presents the final remedy for soils as NFA. The TAP Final ESD was submitted in May 2014.



FGGM 32 - Fire Training Area  
0 30 60 120 Feet

**Current Use:** Inactive

**Current Status:** Conducting 5-year reviews to evaluate the frequency and need for continued LTGM; the last 5-year review was conducted in 2011. Any risk associated with munitions will be addressed under the MMRP and the TAP LUCRD (FGGM 85) that was submitted in June 2015 to better implement, maintain, and enforce the MEC LUCs.

**Cleanup/Exit Strategy:** FGGM 32 will be administratively closed because groundwater is currently being monitored under FGGMs 10 and 31 for all of Tipton and MEC is addressed under FGGM 85.

### 2.7.3 FGGM 72 (OU-27) – POL STORAGE TANKS

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Investigation, CAP, and Initial Site

Characterization..... 1989

Soil Gas Survey..... 1992

PA..... 2012

LUCRD..... June 2015

**Contaminants of Potential Concern:** Heating oil

**Media of Concern:** Soil and groundwater

**Site Location:** Grid F5, in the northern portion of the TAP.

**Site Description:** FGGM 72 consists of Building/Hangar 80 and Building/Hangar 85, which are both located along Airfield Service Road. A steel 4,000-gallon heating oil tank is located at Building 80, and a steel 5,000-gallon heating oil tank is located at Building 85 (Argonne, 1989). The 4,000-gallon UST at Building 80 was installed in June 1988. This tank replaced a steel-constructed, 4,000-gallon UST that failed a leak test in May 1988 and was removed by order of MDE. Contaminated soils excavated during the tank removal were disposed of at the sanitary landfill. The MDE case was closed on 21 June 1988 (EA, 1992b). The present UST is on the north side of Building 80 and is surrounded by three monitoring wells.

The 5,000-gallon UST at Building 85 was installed in November 1975 (EA, 1992b). The tank passed a leak test in May 1988.

These USTs stored heating oil for use in the adjacent buildings 80 and 85, respectively. This was confirmed in the 1991 transfer assembly document and the 1998 de-registration report.

**Previous Studies:** Over the course of previous investigations at this site, 26 soil vapor samples were obtained.



FGGM 72 (OU-27) - POL Storage Tanks, P-080 and P-065

0 100 200 400 Feet

**Current Use:** The Army has transferred this property, and MDE records indicate the USTs were closed in 1998.

**Current Status:** EPA approved NFA for this AOI on 23 February 2012. Any risk associated with munitions will be addressed under the MMRP and the TAP LUCRD (FGGM 85) that was submitted in June 2015 to better implement, maintain, and enforce the MEC LUCs and incorporate them into the CERCLA process.

**Cleanup/Exit Strategy:** Not applicable. The Army plans to administratively close AEDB-R number "FGGM 72" because EPA has approved NFA and MEC is addressed under FGGM 85.

## 2.7.4 FGGM 73 (OU-28) – MAINTENANCE SHOPS, BUILDINGS 85 AND 90

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

PA ..... 1990

SI ..... 1992

PA ..... 2011

LUCRD ..... June 2015

**Contaminants of Potential Concern:** Not determined

**Media of Concern:** Not determined

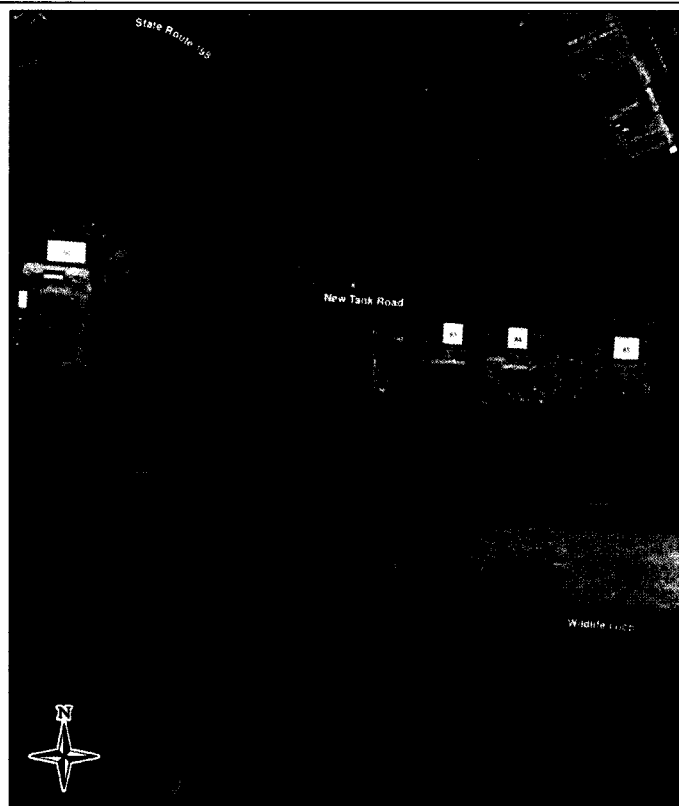
**Site Location:** Grid E5, in the north-central portion of the Tipton Airfield.

**Site Description:** This AOI is for the USTs at Buildings 85 and 90. The 5,000-gallon UST at Building 85 was installed in November 1975. The tank passed a leak test in May 1988.

Building 90 was constructed in the early 1980s and used for the maintenance and storage of helicopters. In addition to fuels such as aviation and diesel fuel, hydraulic and lubricating oils, detergents, and solvents were also used, handled, or stored. Hangar 90 was cleared and taken out of service when it was decommissioned in early 1996.

Maintenance Shop Building 85 is also part of FGGM 72 – POL Storage Tanks because Building 85 includes USTs at. Maintenance Shop Building 90 is also part of FGGM 80 – Helicopter Hangar 90 because Building 90 is the Helicopter Hangar building.

**Previous Studies:** Over the course of previous investigations at these AOIs, 12 soil vapor samples were obtained around the UST at Building 85. Low-level hydrocarbon contamination (e.g., maximum encountered toluene concentration was 1.6 parts per million) was detected at 4 of the 12 vapor sampling locations (EA, 1992).



FGGM 73 (OU-28) - Maintenance Shops, Buildings 85 and 90

0 300 600 1,200 Feet

**Current Use:** Part of Tipton Airfield Parcel

**Current Status:** The PA includes a letter saying the Army will administratively close AEDB-R number "FGGM 73." Any risk associated with munitions will be addressed under the MMRP and the TAP LUCRD (FGGM 85) that was submitted in June 2015 to better implement, maintain, and enforce the MEC LUCs and incorporate them into the CERCLA process.

**Cleanup/Exit Strategy:** FGGM 73 will be administratively closed because this AOI is addressed under FGGM 72, FGGM 80, and FGGM 85.

## 2.7.5 FGGM 80 (OU-32) – HELICOPTER HANGAR 90 (PART OF TIPTON)

**Regulatory Driver:** CERCLA

### Environmental Investigations:

PA ..... 1989  
 SI ..... 1992  
 RI ..... 1998  
 Removal Action Report ..... 1999  
 LTMP ..... 2001, 2012  
 LTM ..... 2004-2014  
 ESD ..... 2014  
 LUCRD ..... June 2015  
 5-Year Review ..... 2016

**Contaminants of Potential Concern:** Metals, fuels, and oils.

**Media of Concern:** Soil and groundwater

**Site Location:** Grid E5, in the northwest corner of the Tipton Army Airfield, and includes Building 90 (the Helicopter Hangar) and adjacent areas.

**Site Description:** HHA Building 90 and associated structures were constructed in the early 1980s. Hangar 90 was used to store and maintain helicopters. Typical activities included washing, disassembly, repair, and painting of aircraft. Aviation and diesel fuel, hydraulic and lubricating oils, detergents, and solvents were used, handled, or stored here. Hangar 90 was cleared and taken out of service when it was decommissioned in early 1996.

**Previous Studies:** Previous studies and reports that included the BRAC parcels were: an Enhanced PA (1989), a study by the Maryland Department of Natural Resources, a Draft SI Addendum (which included an Environmental Impact Statement (EIS) and a Wetland Identification Study) (1991), an SI (1992), an RI (1998), an Ordnance and Explosives Removal Action (1997), and a Removal Action Report (1999).



FGGM 80 - Helicopter Hangar 90  
 0 30 60 120 Feet

**Current Use:** Part of Tipton Airfield Parcel

**Current Status:** Conducting 5-year reviews to evaluate the frequency and need for continued LTGM; the last one was conducted in 2011. This ensures the remedy continues to provide adequate protection of human health and the environment. Any risk associated with munitions will be addressed under the MMRP and the TAP LUCRD (FGGM 85) that was submitted in June 2015 to better implement, maintain, and enforce the MEC LUCs and incorporate them into the CERCLA process.

**Cleanup/Exit Strategy:** FGGM 80 will be administratively closed because 1) the ROD presents the final remedy for soils as NFA, 2) groundwater is currently being monitored under FGGM 10 and FGGM 31 for all of Tipton Airfield Parcel, and 3) MEC is addressed under FGGM 85.

## 2.7.6 FGGM 82 (OU-34) – UNEXPLODED ORDNANCE (UXO) REMOVAL

### Regulatory Driver: CERCLA

### Environmental Investigations:

Enhanced PA.....	1989
PA.....	1990
Ordnance Survey and Removals.....	1992, 1993
RA(C).....	1997
Engineering Evaluation.....	2001
NTCRA Memorandum.....	2001
LTM.....	2001
NTCRAs.....	2003-2004
OE Removal Action.....	2006
5-Year Review Report.....	2008

### Contaminants of Potential Concern: MEC

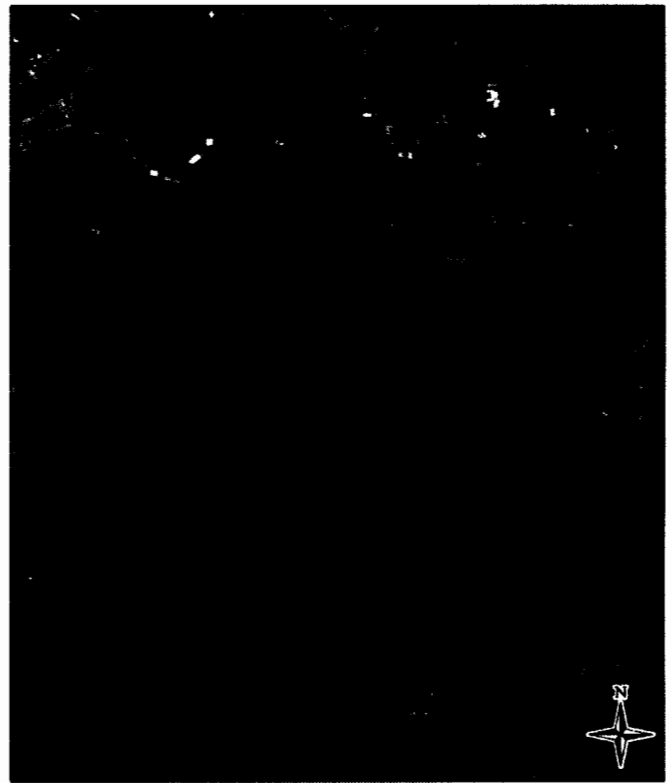
### Media of Concern: Soil

**Site Location:** Grids A5 through F10, FGGM 82 covers the entire PRR-NT.

**Site Description:** FGGM 82 is the Installation Restoration Program (IRP) designation for UXO removal in the PRR-NT. FGGM 002-R-01 is the MMRP designation for MEC work at the PRR-NT.

**Previous Studies:** Several sweeps of the PRR-NT occurred in the past, and in 2001, an Action Memorandum recommended LUCs with surface and subsurface clearance to depth in

selected areas. A NTCRA was completed for 24 areas within the PRR-NT identified by the USFWS as high traffic areas. LUCs include educating workers and recreational users on potential residual OE hazards that may be associated with the property and proper notification procedures if any OE is encountered.



FGGM 82 (OU-34) – Unexploded Ordnance Removal  
0 2,500 5,000 10,000 Feet

**Current Use:** Patuxent Research Refuge.

**Current Status:** The PA includes a letter saying the Army will administratively close AEDB-R number "FGGM 82."

**Cleanup/Exit Strategy:** Funding for work on the PRR-NT was moved from the IRP to the MMRP, and FGGM 82 is recommended for administrative closure. Future work will fall under the designation High Explosive Impact and Disposal Area FGGM 002-R-01. Continuing site work (including MEC issues and LUCs) will still be addressed under FGGM 002-R-01 after FGGM 82 is administratively closed.

### 2.7.7 6-ACRE LITTLE PATUXENT RIVER SITE

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Environmental Condition of

Property Final ..... 2011

**Contaminants of Potential Concern:** None

**Media of Concern:** None

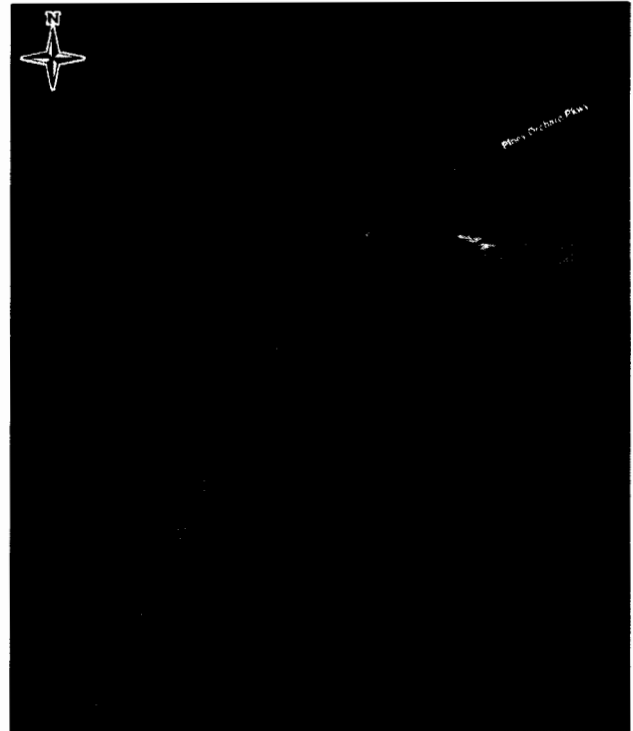
**Site Location:** Grids G8 and H8, adjacent to the southeast corner of the PRR-NT, separated by railroad tracks.

**Site Description:** This AOI is undeveloped land. The Patuxent Road traverses the site. There is no indication that the site has ever been used as an operational range, and considering its location it probably has not.

**Previous Studies:** There has been no sampling by previous studies.

**Current Use:** Inactive.

**Current Status:** A Final Environmental Condition of Property was completed in FY11 and approved by regulatory agencies. A Record of Environmental Consideration, Finding of Suitability for Transfer, and Disposal Report was completed in FY14. The Army submitted a quitclaim deed that transferred the property to Anne Arundel County in 2015 under a conservation conveyance.



**Cleanup/Exit Strategy:** This property was transferred to Anne Arundel County in 2015.

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